

```
import pandas as pd
data1={"name":["sally","mary","john"],"age":[50,40,30]}
data2={"qualified":[True,False,False]}
df1=pd.DataFrame(data1)
print("original dataframe 1:\n",df1)
df2=pd.DataFrame(data2)
print("\n original dataframe 2:\n",df2)
newdf=df1.join(df2)
print("\n joining above 2 dataframes using join operation:\n",newdf)
```

```
original dataframe 1:
   name  age
0  sally  50
1   mary  40
2   john  30

original dataframe 2:
   qualified
0        True
1        False
2        False

joining above 2 dataframes using join operation:
   name  age  qualified
0  sally  50        True
1   mary  40        False
2   john  30        False
```

```
df1=pd.DataFrame([[1,2],[3,4]])
df2=pd.DataFrame([[5,6],[7,8]])
def myfunc(a,b):
    if(a.sum()>b.sum()):
        return a
    else:
        return b
print("\n original dataframe1:\n",df1)
print("\n original dataframe2:\n",df2)
print("\n combining above two dataframes using combine function with some condition:\n",df1.combine(df2,myfunc))
data1={"name":["sally","mary","john"],"age":[50,40,30]}
data2={"name":["sally","peter","micky"],"age":[77,44,22]}

df1=pd.DataFrame(data1)
df2=pd.DataFrame(data2)
print("\n original dataframe1:\n",df1)
print("\n original dataframe2:\n",df2)
```

```
original dataframe1:
   0  1
0  1  2
1  3  4

original dataframe2:
   0  1
0  5  6
1  7  8

combining above two dataframes using combine function with some condition:
   0  1
0  5  6
1  7  8

original dataframe1:
   name  age
0  sally  50
1   mary  40
2   john  30

original dataframe2:
   name  age
0  sally  77
1  peter  44
2  micky  22
```

```
newdf=df1.merge(df2,how='right')
print("\n merge operation:\n",newdf)
```



```
merge operation:
   name  age
0  sally   77
1  peter   44
2  micky   22
```

```
#create dataframe
df=pd.DataFrame({'team':['A','B','C','D'],'points':[88,91,99,94],'assists':[12,17,24,28],'rebounds':[22,28,30,31]})
#view dataframe
print("\n original dataframe:\n",df)
#reshape dataframe from wide format to long format
df=pd.melt(df,id_vars='team',value_vars=['points','assists','rebounds'])
#view updated dataframe
print("\n reshaped dataframe:\n",df)
```



```
original dataframe:
   team  points  assists  rebounds
0    A     88      12      22
1    B     91      17      28
2    C     99      24      30
3    D     94      28      31
```

```
reshaped dataframe:
   team variable  value
0    A   points     88
1    B   points     91
2    C   points     99
3    D   points     94
4    A  assists     12
5    B  assists     17
6    C  assists     24
7    D  assists     28
8    A  rebounds     22
9    B  rebounds     28
10   C  rebounds     30
11   D  rebounds     31
```